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**GEOMETRY – PACING GUIDE**

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| **FIRST QUARTER** | | |
| **UNIT** | **PACING** | **TOPICS** |
| **Geometry: Properties, Dimension, and Modeling**  **(Chapters 1, 2, & 3)**  **& *Introductory Unit to Transformations.***  ***\*See curriculum guide for specific sections to cover in Chapter 2.*** | **7.5 weeks** | * **Tools of Geometry** * **Parallel & Perpendicular Lines** * **Use coordinates to prove simple geometric theorems algebraically** * **Explain volume formulas and use them to solve problems** * **Apply geometric concepts in modeling situations** |
| **Congruence**  **(Chapter 4: *Sections 1 – 4*)** | **1.5 weeks** | * **Experiment with transformations in the plane** * **Understand congruence in terms of rigid motions** * **Prove geometric theorems** * **Make geometric constructions** |
| **SECOND QUARTER** | | |
| **UNIT** | **PACING** | **TOPICS** |
| **Congruence**  **(Chapter 4: *Sections 5 – 8*)**  **&**  **(Chapter 5 *with Lesson 10.5*)**  **&**  **(Chapter 6)** | **7.5 weeks** | * **Experiment with transformations in the plane** * **Understand congruence in terms of rigid motions** * **Prove geometric theorems** * **Make geometric constructions** * **Inscribed & Circumscribed Circles** |
| **Similarity, Right Triangles, & Trigonometry**  **(Chapter 7: *Sections 1 – 3)*** | **1.5 weeks** | * **Understand similarity in terms of similarity transformations** * **Prove theorems involving similarity** * **Define trigonometric ratios and solve problems involving right triangles** |
| **THIRD QUARTER** | | |
| **UNIT** | **PACING** | **TOPICS** |
| **Similarity, Right Triangles, & Trigonometry**  **(Chapter 7: *Sections 4 – 7 with Lesson 9.6)***  ***&***  ***(*Chapter 8: *Sections 1 – 5)***  ***&***  ***(*Chapter 9: *Sections 1 – 5)*** | **8 weeks** | * **Understand similarity in terms of similarity transformations** * **Prove theorems involving similarity** * **Define trigonometric ratios and solve problems involving right triangles** |
| **FOURTH QUARTER** | | |
| **UNIT** | **PACING** | **TOPICS** |
| **Circles**  **(Chapter 10)** | **2.5 weeks** | * **Understand and apply theorems about circles** * **Find arc lengths and areas of sectors of circles** |
| **Geometry: Properties, Dimension, and Modeling**  **(Chapter 11 & 12)** | **5.5 weeks** | * **Translate between the geometric description and the equation for a conic section** * **Visualize relationships between two-dimensional and three-dimensional objects** |